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(music and data near type and first and second and (search$ or retriev$) and (group$ or cluster$) and record$ and main near5 group$ and sub near5 group$).clm.	0

Database:
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US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L6

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Friday, June 25, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L6	(music and data near type and first and second and (search$ or retriev$) and (group$ or cluster$) and record$ and main near5 group$ and sub near5 group$).clm.	0	L6
L5	(music and data near type and first and second and (search$ or retriev$) and (group$ or cluster$) and record$ and main near5 group$ and sub near5 group$).ab.	0	L5
L4	(music and data near type and first and second and (search$ or retriev$) and (group$ or cluster$) and record$ and main near5 group$ and sub near5 group$).ti.	0	L4
L3	music and data near type and first and second and (search$ or retriev$) and (group$ or cluster$) and record$ and main near5 group$ and sub near5 group$	7	L3
L2	music and data near type and first and second and (search$ or retriev$) and	2547	L2

	(group$ or cluster$) and record$		
L1	music and data near type and first and second and (search$ or retriev$) and (group$ or cluster$)	2966	L1

END OF SEARCH HISTORY

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Your wildcard search against 10000 terms has yielded the results below.
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Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20040088646 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 7 File: PGPB May 6, 2004

PGPUB-DOCUMENT-NUMBER: 20040088646
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040088646 A1

TITLE: Collaborative content coherence using mobile agents in peer-to-peer networks

PUBLICATION-DATE: May 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yeager, William J.	Menlo Park	CA	US	
Chen, Rita Y.	Cupertino	CA	US	
Soto, Juan C.	San Francisco	CA	US	

US-CL-CURRENT: 715/500

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. De

☐ 2. Document ID: US 20040088369 A1

L3: Entry 2 of 7 File: PGPB May 6, 2004

PGPUB-DOCUMENT-NUMBER: 20040088369
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040088369 A1

TITLE: Peer trust evaluation using mobile agents in peer-to-peer networks

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. De

☐ 3. Document ID: US 20040088348 A1

L3: Entry 3 of 7 File: PGPB May 6, 2004

PGPUB-DOCUMENT-NUMBER: 20040088348
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040088348 A1

TITLE: Managing distribution of content using mobile agents in peer-topeer networks

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

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☐ 4. Document ID: US 20040088347 A1

L3: Entry 4 of 7 File: PGPB May 6, 2004

PGPUB-DOCUMENT-NUMBER: 20040088347
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040088347 A1

TITLE: Mobile agents in peer-to-peer networks

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

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☐ 5. Document ID: US 20020161762 A1

L3: Entry 5 of 7 File: PGPB Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161762
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020161762 A1

TITLE: Information processor, processing method therefor, and program storage medium

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

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☐ 6. Document ID: US 5406425 A

L3: Entry 6 of 7 File: USPT Apr 11, 1995

US-PAT-NO: 5406425
DOCUMENT-IDENTIFIER: US 5406425 A

TITLE: ISO/IEC compatible digital audio tape digital data storage system with increased data transfer rate

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. De

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☐ 7. Document ID: US 5287478 A

L3: Entry 7 of 7 File: USPT Feb 15, 1994

US-PAT-NO: 5287478
DOCUMENT-IDENTIFIER: US 5287478 A

TITLE: Digital data tape storage system utilizing plurality of read/write heads with system diagnostic capability

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
music and data near type and first and second and (search$ or retriev$) and (group$ or cluster$) and record$ and main near5 group$ and sub near5 group$	7

Display Format: - Change Format

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Your search matched **0** of **1046194** documents.
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music and data<near/3>type and first and second ar Search

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JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

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Results:
No documents matched your query.

Terms used
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Best 200 shown

Result page: **1** 2 3 4 5 6 7 8 9 10 next

1 Multimedia Processing: Hierarchical filtering method for content-based music retrieval via ac
Jyh-Shing Roger Jang, Hong-Ru Lee
October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available: pdf(722.96 KB) Additional Information: full citation, abstract, references, citings, index

This paper presents an implementation of a content-based music retrieval system that can take a (8-second clip of singing or humming) via a microphone and then retrieve the intended song from containing over 3000 candidate songs. The system, known as Super MBox, demonstrates the feas music retrieval with a high success rate. Super MBox first takes the user's acoustic input from a n converts it into a pitch vector. Then a hierarchi ...

Keywords: audio indexing and retrieval, audio signal processing, content-based music retrieval, programming, dynamic time warping, nearest neighbor search, pattern recognition, query by sinç

2 Music: Approximate matching algorithms for music information retrieval using vocal input
Richard L. Kline, Ephraim P. Glinert
November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available: pdf(165.02 KB) Additional Information: full citation, abstract, references, index terms

Effective use of multimedia collections requires efficient and intuitive methods of searching and bı considers databases which store music and explores how these may best be searched by providin some musical form. For the average person, humming several notes of the desired melody is the method for providing this input, but such input is very likely to contain several errors. Previously implementations of so-called *query-by-humm ...*

***Keywords**: music information retrieval, query by humming*

3 A practical query-by-humming system for a large music database
Naoko Kosugi, Yuichi Nishihara, Tetsuo Sakata, Masashi Yamamuro, Kazuhiko Kushima
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings, index

A music retrieval system that accepts hummed tunes as queries is described in this paper. This s retrieval because a hummed tune may contain errors. The retrieval result is a list of song names the closeness of the match. Our ultimate goal is that the correct song should be first on the list. T

eventually our system's similarity retrieval should allow for only one correct answer.

The most significant improvement our system has ove ...

4 Burst tries: a fast, efficient data structure for string keys
April 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2
Full text available: pdf(324.84 KB) Additional Information: full citation, abstract, references, citings, index

Many applications depend on efficient management of large sets of distinct strings in memory. Fo index construction for text databases a record is held for each distinct word in the text, containinç information such as counters. We propose a new data structure, the burst trie, that has significan existing options for such applications: it uses about the same memory as a binary search tree; it and, while not as fast as a ...

Keywords: Binary trees, splay trees, string data structures, text databases, tries, vocabulary acc

5 Content-based retrieval for music collections
Yuen-Hsien Tseng
August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Resea development in information retrieval**
Full text available: pdf(99.27 KB) Additional Information: full citation, references, citings, index terms

Keywords: approximate string matching, key melody extraction, music indexing, music retrieval encoding, query suggestion

6 Posters: Efficient K-NN search in polyphonic music databases using a lower bounding mech
Ning-Han Liu, Yi-Hung Wu, Arbee L. P. Chen
November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia in**
Full text available: pdf(506.60 KB) Additional Information: full citation, abstract, references, index terms

Querying polyphonic music from a large data collection is an interesting and challenging topic. Re attempt to provide efficient techniques for content-based retrieval in polyphonic music databases also be polyphonic. However, most of the techniques do not perform the approximate matching w present a novel method to efficiently retrieve k music works that contain segments most similar t based on the edit distance. A list-b ...

Keywords: indexing methods, lower bounded edit distance, polyphonic music information retriev

7 Musical information retrieval using melodic surface
Massimo Melucci, Nicola Orio
August 1999 **Proceedings of the fourth ACM conference on Digital libraries**
Full text available: pdf(674.04 KB) Additional Information: full citation, references, citings, index terms

Keywords: automatic indexing, automatic melodic segmentation, computer music, information r digital libraries

8 Music and digital libraries: from users to algorithms: Content-based indexing of musical scor
Richard A. Medina, Lloyd A. Smith, Deborah R. Wagner

May 2003 **Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(118.63 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a method of automatically creating a content-based index of musical scores. the themes, or motifs, that appear in the music. The method was tested by building an index of 2 movements from the classical music literature. For every movement, the system captured the pri variation of the primary theme. In addition, it captured 13 of 28 secondary themes. The resulting size of the database. A further reduction ...

9 Multimedia: Peer-to-peer architecture for content-based music retrieval on acoustic data

Cheng Yang

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(146.73 KB) Additional Information: full citation, abstract, references, index terms

In traditional peer-to-peer search networks, operations focus on properly labeled files such as mu actual search is often limited to text tags. The explosive growth of available multimedia document for more flexible search capabilities, namely search by content. Most content-based search algorit computationally intensive, making them inappropriate for a peer-to-peer environment. In this pap content-based music retrieval algorithm ...

Keywords: acoustic data, content-based music retrieval, distributed, load balancing, peer-to-pee

10 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

11 Music digital libraries: A comparison of melodic database retrieval techniques using sung qu

Ning Hu, Roger B. Dannenberg

July 2002 **Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(248.70 KB) Additional Information: full citation, abstract, references, index terms

Query-by-humming systems search a database of music for good matches to a sung, hummed, o Errors in transcription and variations in pitch and tempo can cause substantial mismatch between Thus, algorithms for measuring melodic similarity in query-by-humming systems should be robus variations of search algorithms in an effort to improve search precision. In particular, we describe algorithm that significantly outperforms ...

Keywords: dynamic programming, melodic comparison, melodic search, music information retrie

12 Evaluation of a simple and effective music information retrieval method

Stephen Downie, Michael Nelson

July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Resea development in information retrieval**

Full text available: pdf(795.28 KB) Additional Information: full citation, abstract, references, citings, index

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Keywords: efficient search over non-textual information, results analysis and presentation for MI

13 SmartMusicKIOSK: music listening station with chorus-search function

Masataka Goto

November 2003 **Proceedings of the 16th annual ACM symposium on User interface software a**

Full text available: pdf(397.15 KB) mov(4:26 MIN) wmv(4:26 MIN) Additional Information: full citation, abstract, references, index terms

This paper describes a new music-playback interface for trial listening, *SmartMusicKIOSK*. In mus listening of CD music is not usually a passive experience -- customers often search out the chorus using the fast-forward button. Listening of this type, however, has not been traditionally supporte achieves a function for jumping to the chorus section and other key parts of a song plus a functio structure. These f ...

Keywords: audio visualization, chorus detection, music interaction, music-playback interface, so

14 Curriculum 68: Recommendations for academic programs in computer science: a report of tl committee on computer science

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, Willian McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Yo

March 1968 **Communications of the ACM**, Volume 11 Issue 3

Full text available: pdf(6.63 MB) Additional Information: full citation, references, citings

Keywords: computer science academic programs, computer science bibliographies, computer sci computer science curriculum, computer science education, computer science graduate programs, undergraduate programs

15 An interface for melody input

Lutz Prechelt, Rainer Typke

June 2001 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 8 Issue 2

Full text available: pdf(301.45 KB) Additional Information: full citation, abstract, references, citings, index

We present a software system, called Tunserver, which recognizes a musical tune whistled by the database, and returns its name, composer, and other information. Such a service is useful for tra stations, music stores, etc., and is also a step toward the long-term goal of communicating with a one would with a human being. Tuneserver is implemented as a public Java-based WWW service approximately 10,000 motifs. Tun ...

Keywords: input mode, melody, motif, recognition, theme, tune

16 Music-notation searching and digital libraries

Donald Byrd

January 2001 **Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(245.26 KB) Additional Information: full citation, abstract, references, citings, index

Almost all work on music information retrieval to date has concentrate d on music in the audio an MIDI) domains. However, music in the form of notation, especially Conventional Music Notation (interest to musically-trained persons, both amateurs and professionals, and searching CMN has g music libraries. One obvious reason little has been done on music retrieval in CMN form is the ov

of CMN, which requires a very s ...

17 Music digital libraries: HMM-based musical query retrieval
Jonah Shifrin, Bryan Pardo, Colin Meek, William Birmingham
July 2002 **Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries**
Full text available: pdf(424.83 KB) Additional Information: full citation, abstract, references, citings, index

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Keywords: database, forward algorithm, hidden Markov model, melody, music

18 SpeechSkimmer: a system for interactively skimming recorded speech
Barry Arons
March 1997 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 1
Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index

Listening to a speech recording is much more difficult than visually scanning a document because temporal nature of audio. Audio recordings capture the richness of speech, yet it is difficult to dire information. This article describes techniques for structuring, filtering, and presenting recorded sp to navigate and interactively find information in the audio domain. This article describes the Spee interacti ...

Keywords: audio browsing, interactive listening, nonspeech audio, speech as data, speech skimr interfaces, time compression

19 CiteSeer: an autonous Web agent for automatic retrieval and identification of interesting pub
Kurt D. Bollacker, Steve Lawrence, C. Lee Giles
May 1998 **Proceedings of the second international conference on Autonomous agents**
Full text available: pdf(1.07 MB) Additional Information: full citation, references, citings, index terms

20 Experiments in social data mining: The TopicShop system
Brian Amento, Loren Terveen, Will Hill, Deborah Hix, Robert Schulman
March 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 1
Full text available: pdf(377.92 KB) Additional Information: full citation, abstract, references, index terms

Social data mining systems enable people to share opinions and benefit from each other's experie mining and redistributing information from computational records of social activity such as Usenet usage history, citations, or hyperlinks. Some general questions for evaluating such systems are: (information valuable? and (2) do interfaces based on the information improve user task performa on *TopicShop*, a syst ...

Keywords: Cocitation analysis, collaborative filtering, computer-supported cooperative work, infc social filtering, social network analysis

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next

Terms used
music and **data** **near/3** **type** and **first** and **second** and **search** or **retrieve** and **record** and **main** **near/5** **group** ar

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Keywords: approximate string matching, key melody extraction, music indexing, music retrieval

suggestion

9 VARIATIONS: a digital music library system at Indiana University
Jon W. Dunn, Constance A. Mayer
August 1999 **Proceedings of the fourth ACM conference on Digital libraries**
Full text available: pdf(122.41 KB) Additional Information: full citation, references, citings, index terms

Keywords: digital audio, digital libraries, music libraries

10 SmartMusicKIOSK: music listening station with chorus-search function
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12 Music and digital libraries: from users to algorithms: Content-based indexing of musical scor
Richard A. Medina, Lloyd A. Smith, Deborah R. Wagner
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Ning Hu, Roger B. Dannenberg
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Full text available: pdf(248.70 KB) Additional Information: full citation, abstract, references, index ter

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Keywords: dynamic programming, melodic comparison, melodic search, music information retri

14 Evaluation of a simple and effective music information retrieval method

Stephen Downie, Michael Nelson

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Keywords: efficient search over non-textual information, results analysis and presentation for M

15 Music-notation searching and digital libraries

Donald Byrd

January 2001 **Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(245.26 KB) Additional Information: full citation, abstract, references, citings, i

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16 Music digital libraries: HMM-based musical query retrieval

Jonah Shifrin, Bryan Pardo, Colin Meek, William Birmingham

July 2002 **Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries**

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Keywords: database, forward algorithm, hidden Markov model, melody, music

17 Music and digital libraries: from users to algorithms: An ethnographic study of music informa the design of a music digital library

Sally Jo Cunningham, Nina Reeves, Matthew Britland

May 2003 **Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(156.59 KB) Additional Information: full citation, abstract, references, index ter

At present, music digital library systems are being developed based on anecdotal evidence of use
information seeking behavior, and a priori assumptions of typical usage scenarios. Emphasis has
into music document representation, efficient searching, and audio-based searching, rather than
information needs or information behavior of a target user group. This paper focuses on eliciting t

18 A survey on wavelet applications in data mining
Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara
December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

Full text available: pdf(330.06 KB) Additional Information: full citation, abstract, references, citings

Recently there has been significant development in the use of wavelet methods in various data m has been written no comprehensive survey available on the topic. The goal of this is paper to fill t a high-level data-mining framework that reduces the overall process into smaller components. Th each component are reviewd. The paper concludes by discussing the impact of wavelets on data r

19 CMIFed: a transportable hypermedia authoring system
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